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COUNTRY Poland

SUBJECT Evaluation of Textbook on Machine Elements
Now in Use at the Technical University of Warsaw

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1. [redacted] a three-volume work entitled, Wyklad
Elementow Maszyn, and written by Dr Inz Wacław Moszynski, Professor of
Mechanical Engineering at the Technical University of Warsaw. The work was
published in Warsaw in 1949 by the Stowarzyszenie Inzynierow Polskich Mechani-
kow (SIMP). There is a publisher's note in the second volume that the first
printing (four thousand copies) of Volume I was sold out within a few months
of release. Volume I contains chapters on materials and their properties;
welded joints; riveted fastenings; screwed fastenings; pipes and their connec-
tions; valves; stuffing boxes. Volume II (Bearing Design) contains chapters on
plain bearings; ball and roller bearings; bearing housings (comprising heavy
machine frames); shafts and axes; couplings and clutches; brakes. Volume III
(Drives) contains chapters on friction drives; flexible transmission; toothed
gears, kinematics; toothed gears, stress analysis; gear boxes. The author
states in his preface that the text covers the entire series of lectures on
the subject of machine design which are given at the Technical University of
Warsaw as well as supplementary technical information which could not be in-
cluded in the lectures. He states further that a fourth volume is in prepara-
tion (1949) which will treat of cams, transmission of motion by means of levers,
cranks, valve gears and vibration of shafts.

2. The course in the Design of Machine Elements at the Technical University of
Warsaw [1953] is taught in the second year and consists of four lecture hours
a week plus four or five comprehensive drafting problems per semester.
Moszynski's text is adapted for use in the European system of engineering
training, whereby the study of such specialized subjects as lifting machines,
boilers, steam engines, steam turbines, and internal combustion engines is
incorporated in the third, fourth, and fifth year curricula. In his text,
Moszynski presents a variety of design solutions for a typical machine
element, considers stress analysis for various types of loading, and dis-
cusses allowable stresses and coefficients used in calculations and the
influence of the shape of an object on casting processes and machining.

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50X1 3. [] there is no existing US or UK text which treats of the subject in the manner advocated by Moszynski. There are, of course, various English textbooks on particular design problems, but none in which these problems are assembled and studied in a detailed treatise on machine elements. One will find, for example, many books written on the subject of toothed gears, but the study of kinematics is usually confined to texts on mechanics of machinery and the study of stress analysis to those dealing with machine design. Rotscher's *Maschinenelemente*, published in 1924 and now 1953 out-of-date, is one of a few German texts which use the same approach to the subject as Moszynski.

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